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APPLICATION NO.	FILING DATE	FERST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO	
09/826,127	04/04/2001	Erik B. Nelson	56.0503	2299	
27452 7	590 06/18/2004		EXAMINER		
SCHLUMBERGER TECHNOLOGY CORPORATION			TUCKER, PHILIP C		
IP DEPT., WE	LL STIMULATION				
110 SCHLUMBERGER DRIVE, MD1			ARTUNIT	PAPER NUMBER	
SUGAR LAND, TX 77478			1712		

1712 DATE MAILED: 06/18/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

	Ap	plication No.	Applicant(s)	W,
		9/826,127	NELSON ET AL.	
Office Action Sumn	nary Ex	aminer	Art Unit	
	Ph	ilip C Tucker	1712	
The MAILING DATE of this of Period for Reply			ith the correspondence ad	dress
A SHORTENED STATUTORY PE THE MAILING DATE OF THIS CO  Extensions of time may be available under the after SIX (6) MONTHS from the mailing date o  If the period for reply specified above is less ti If NO period for reply is specified above, the m  Failure to reply within the set or extended peri Any reply received by the Office later than thre earmed patent term adjustment. See 37 CFR.	MMUNICATION.  provisions of 37 CFR 1.136(a).  If this communication.  In thirty (30) days, a reply within  aximum statutory period will app  of for reply will, by statute, caust  the months after the mailing date.	In no event, however, may a n the statutory minimum of thir ply and will expire SIX (6) MON	reply be timely filed  ty (30) days will be considered timely  NTHS from the mailing date of this or	y. ommunication.
Status				
1) Responsive to communication	on(s) filed on 24 May 2	004		
2a) This action is FINAL.	2b)⊠ This action			
3) Since this application is in co			ers prosecution as to the	morito io
closed in accordance with th	e practice under Ex pa	rte Quayle, 1935 C.E	), 11, 453 O.G. 213.	ments is
Disposition of Claims	•	, ,	,	
4) Claim(s) 2-4,7,9,10,12-15,19	<u>,20,22,23,29,33-35,37</u>	. <u>42,43,45 and 48</u> is/a	re pending in the applicat	ion.
4a) Of the above claim(s)	is/are withdrawn fro	om consideration.		
5) Claim(s) 7,12,15,19,20,22,23		8 is/are allowed.		
6) Claim(s) 2,3,9,13,14,33 and				
7) Claim(s) <u>4,10 and 45</u> is/are o				
8) Claim(s) are subject to	restriction and/or elec	tion requirement.		
pplication Papers				
<li>9)☐ The specification is objected t</li>	o by the Examiner.			
10) The drawing(s) filed on	is/are: a) accepted	or b) objected to I	by the Examiner.	
Applicant may not request that a	ny objection to the drawir	ng(s) be held in abeyan	ce. See 37 CFR 1.85(a).	
Replacement drawing sheet(s) in	cluding the correction is	required if the drawing(	s) is objected to. See 37 CFI	R 1 121(d)
11) The oath or declaration is obje	ected to by the Examin	er. Note the attached	Office Action or form PT0	D-152.
riority under 35 U.S.C. § 119				
12) Acknowledgment is made of a a) All b) Some * c) Non	e of:		119(a)-(d) or (f).	
<ol> <li>Certified copies of the p</li> </ol>	priority documents have	e been received.		
<ol><li>Certified copies of the p</li></ol>	priority documents have	e been received in Ar	plication No.	
<ol><li>Copies of the certified of</li></ol>	copies of the priority do	cuments have been i	received in this National S	tage
application from the Inte	ernational Bureau (PC	Γ Rule 17.2(a)).		J
* See the attached detailed Office	e action for a list of the	certified copies not r	eceived.	
tachment(s)		_		
Notice of References Cited (PTO-892)  Notice of Draftsperson's Patent Drawing Re	eview (PTO-948)	4) Interview Su	ımmary (PTO-413) /Mail Date	
) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08 Paper No(s)/Mail Date		5) Notice of Inf	ormal Patent Application (PTO-1	152)

#### DETAILED ACTION

1. The finality of the last office action is withdrawn and superceded by the present office action.

#### Claim Objections

 Claim 45 is objected to because of the following informalities: In claim 45, "systemcomprises" should be separated. Appropriate correction is required.

### Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 4. Claim 2 is rejected under 35 U.S.C. 102(e) as being anticipated by Hinkel (US 6192985)

The applied reference has a common assignee with the instant application.

Based upon the earlier effective U.S. filing date of the reference, it constitutes prior art under 35 U.S.C. 102(e). This rejection under 35 U.S.C. 102(e) might be overcome either by a showing under 37 CFR 1.132 that any invention disclosed but not claimed in

the reference was derived from the inventor of this application and is thus not the invention "by another," or by an appropriate showing under 37 CFR 1.131.

Hinkel teaches a method of fracturing utilizing an encapsulated breaker, which utilizes the rupture of the encapsulating material (column 7, lines 24-47). Claim 11 specifically teaches the use of a proppant carrying matrix and an encapsulated breaker, wherein the specification at column 8, lines 55-60 defines such matrix as comprising a viscoelastic surfactant.

5. Claims 2, 9, 13, 14, 33, 42 are rejected under 35 U.S.C. 102(e) as being anticipated by Qu et al (6435277)

The applied reference has a common inventor and assignee with the instant application. Based upon the earlier effective U.S. filing date of the reference, it constitutes prior art under 35 U.S.C. 102(e). This rejection under 35 U.S.C. 102(e) might be overcome either by a showing under 37 CFR 1.132 that any invention disclosed but not claimed in the reference was derived from the inventor of this application and is thus not the invention "by another," or by an appropriate showing under 37 CFR 1.131.

Qu teaches a method of fracturing which comprises using a fluid comprising a viscoelastic surfactant in conjunction with an amine, such as dodecyl amine (see example 25). In the example the fluid is heated, which is what would happen upon placing the fluid downhole into the formation. Depending upon surface temperature conditions, melting and slow dissolution of the amine would take place.

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# Claim Rejections - 35 USC § 103

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6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

7. Claims 2 and 3 are rejected under 35 U.S.C. 103(a) as being obvious over Hinkel (6192985).

The applied reference has a common assignee with the instant application. Based upon the earlier effective U.S. filing date of the reference, it constitutes prior art only under 35 U.S.C. 102(e). This rejection under 35 U.S.C. 103(a) might be overcome by:

(1) a showing under 37 CFR 1.132 that any invention disclosed but not claimed in the reference was derived from the inventor of this application and is thus not an invention "by another"; (2) a showing of a date of invention for the claimed subject matter of the application which corresponds to subject matter disclosed but not claimed in the reference, prior to the effective U.S. filing date of the reference under 37 CFR 1.131; or (3) an oath or declaration under 37 CFR 1.130 stating that the application and reference are currently owned by the same party and that the inventor named in the application is the prior inventor under 35 U.S.C. 104, together with a terminal disclaimer in accordance with 37 CFR 1.321(c). For applications filed on or after November 29, 1999, this rejection might also be overcome by showing that the subject matter of the reference and the claimed invention were, at the time the invention was made, owned

by the same person or subject to an obligation of assignment to the same person. See MPEP § 706.02(l)(1) and § 706.02(l)(2). Hinkel teaches a method of fracturing utilizing an encapsulated breaker, which utilizes the rupture of the encapsulating material (column 7, lines 24-47). The claims specifically teach the use of a proppant carrying matrix and an encapsulated breaker, wherein the specification at column 8, lines 55-60 defines such matrix as comprising a viscoelastic surfactant. Hinkel teaches the use of persulfates as breakers (column 7, lines 28-31), but does not specifically teach ammonium persulfate. It would be obvious to one of ordinary skill in the art to utilize ammonium persulfate in the invention of Hinkel, given the general teaching of Hinkel that persulfate breakers are useful in the fracturing method.

# Double Patenting

8. The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. See *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970);and, *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent is shown to be commonly owned with this application. See 37 CFR 1.130(b).

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

 Claim 2 is rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 7-15 of U.S. Patent No. 6192985. Application/Control Number: 09/826,127

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Although the conflicting claims are not identical, they are not patentably distinct from

each other because although the claims of US 6192985 differ by teaching the use of

more than one breaker, the method therein uses an encapsulated breaker, wherein the

encapsulating coating would rupture rendering the claim 2 of the present application

obvious to one of ordinary skill in the art, in view of the proppant carrying matrix being

defined as a viscoelastic surfactant containing fluid.

10. Claims 4 and 10 are objected to as being dependent upon a rejected base claim,

but would be allowable if rewritten in independent form including all of the limitations of

the base claim and any intervening claims.

11. Claims 7, 12, 15, 19, 20, 22, 23, 29, 34, 35, 37, 43 and 48 are allowable over the

art of record.

12. Applicants amendments have been noted, and overcome the prior rejections.

Further consideration of the prior art resulted in the new rejections presented in this

office action.

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Philip C Tucker whose telephone number is 571-272-

1095. The examiner can normally be reached on Monday - Friday, Flexible schedule.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Vasu Jagannathan can be reached on 571-272-1119. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Philip C Tucker Primary Examiner Art Unit 1712

PCT-3041